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L4	5	2 and ("similarity metric" or "distance metric") and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/11 20:42
L5	147	("Fourier-Mellin" or "Fourier Mellin") and @ad<"20011204"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/11 21:39
L6	115	2 and descriptor$1	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/11 20:52
L7	5211	compaq.as.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/11 21:11
L8	0	7 and similarit$5 and descripttor$2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/11 21:12
L9	0	7 and descripttor$2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/11 21:12
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L12	12	("5713032" | "5892900" | "5943422" | "5946414" | "5974548" | "6122403" | "6141441" | "6278385" | "6345104" | "6363159" | "6373974" | "6542927").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2005/06/11 21:15
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L15	518	13 and image same search$3	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2005/06/11 21:43
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Terrillon, J.-C.; Shirazi, M.N.; Fukamachi, H.; Akamatsu, S.;
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41 Approximation of protein structure for fast similarity measures   ☐
Fabian Schwarzer, Itay Lotan
April 2003 **Proceedings of the seventh annual international conference on Computational molecular biology**
Full text available: 🔳 pdf(212.43 KB)   Additional Information: full citation, abstract, references, index terms

It is shown that structural similarity between proteins can be decided well with much less information than what is used in common similarity measures. The full Cα representation contains redundant information because of the inherent chain topology of proteins and a limit on their compactness due to excluded volume. A wavelet analysis on random chains and proteins justifies approximating subchains by their centers of mass. For not too compact chain-like structures in general, and ...

Keywords: approximation of structure, nearest-neighbor search, protein structure, similarity measures

42 Protein similarity from knot theory and geometric convolution   ☐
Michael A. Erdmann
March 2004 **Proceedings of the eighth annual international conference on Computational molecular biology**
Full text available: 🔳 pdf(467.10 KB)   Additional Information: full citation, abstract, references, index terms

Shape similarity is one of the most elusive and intriguing questions of nature and mathematics. Proteins provide a rich domain in which to test theories of shape similarity. Proteins can match at different scales and in different arrangements. Sometimes the detection of common local structure is sufficient to infer global alignment of two proteins; at other times it provides false information. Proteins with very low sequence identity may share large substructures, or perhaps just a central core. ...

Keywords: homology, homotopy, knot theory, protein structure, robot motion planning, writhing

43 WALRUS: a similarity retrieval algorithm for image databases   ☐
Apostol Natsev, Rajeev Rastogi, Kyuseok Shim
June 1999 **ACM SIGMOD Record , Proceedings of the 1999 ACM SIGMOD international**

conference on Management of data, Volume 28 Issue 2

Full text available: 📄 pdf(1.63 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Traditional approaches for content-based image querying typically compute a single signature for each image based on color histograms, texture, wavelet tranforms etc., and return as the query result, images whose signatures are closest to the signature of the query image. Therefore, most traditional methods break down when images contain similar objects that are scaled differently or at different locations, or only certain regions of the image match. In this pape ...

44 <u>Studying users: A graph-based recommender system for digital library</u>
Zan Huang, Wingyan Chung, Thian-Huat Ong, Hsinchun Chen
July 2002 **Proceedings of the 2nd ACM/IEEE-CS joint conference on Digital libraries**

Full text available: 📄 pdf(435.12 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Research shows that recommendations comprise a valuable service for users of a digital library [11]. While most existing recommender systems rely either on a content-based approach or a collaborative approach to make recommendations, there is potential to improve recommendation quality by using a combination of both approaches (a hybrid approach). In this paper, we report how we tested the idea of using a graph-based recommender system that naturally combines the content-based and collaborative ...

Keywords: Hopfield net algorithm, chinese phrase extraction, collaborative filtering, content-based filtering, graph-based model, mutual information algorithm, recommender system

45 <u>Multimedia data indexing: Looking at mapping, indexing & querying of MPEG-7 descriptors in RDBMS with SM3</u>
Yang Chu, Liang-Tien Chia, Sourav S. Bhowmick
November 2004 **Proceedings of the 2nd ACM international workshop on Multimedia databases**

Full text available: 📄 pdf(279.92 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

MPEG-7 documents, which are primarily for multimedia information exchange, are also data-centric XML documents. Due to its advantages, the relational DBMS is the best choice for storing such XML documents. Storing XML data in relational DBMS can be classified into two classes of storage model: structure-mapping and model-mapping. However, the structure-mapping model cannot support complex Xpath-based query efficiently and model mapping approach lacks the flexible capability in representing al ...

Keywords: MPEG-7, SM3, relational DBMS, storing XML documents

46 <u>Database session 1: querying high-dimensional data: Approximate searches: k-neighbors + precision</u>
Sid-Ahmed Berrani, Laurent Amsaleg, Patrick Gros
November 2003 **Proceedings of the twelfth international conference on Information and knowledge management**

Full text available: 📄 pdf(154.57 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

It is known that all multi-dimensional index structures fail to accelerate content-based similarity searches when the feature vectors describing images are high-dimensional. It is possible to circumvent this problem by relying on approximate search-schemes trading-off

result quality for reduced query execution time. Most approximate schemes, however, provide none or only complex control on the precision of the searches, especially when retrieving the k nearest neighbors (NNs) of query poi ...

Keywords: approximate nearest-neighbor searches, multimedia databases, similarity searches

47 IR-5 (information retrieval): information retrieval applications: Taxonomy-driven computation of product recommendations
Cai-Nicolas Ziegler, Georg Lausen, Lars Schmidt-Thieme
November 2004 **Proceedings of the Thirteenth ACM conference on Information and knowledge management**
Full text available: pdf(269.57 KB)   Additional Information: full citation, abstract, references, index terms

Recommender systems have been subject to an enormous rise in popularity and research interest over the last ten years. At the same time, very large taxonomies for product classification are becoming increasingly prominent among e-commerce systems for diverse domains, rendering detailed machine-readable content descriptions feasible. Amazon.com makes use of an entire plethora of hand-crafted taxonomies classifying books, movies, apparel, and various other goods. We exploit such taxonomic backg ...

Keywords: machine learning, recommender systems, taxonomies

48 Information filtering: the computation of similarities in large corpora of legal texts
Erich Schweighofer, Werner Winiwarter, Dieter Merkl
May 1995 **Proceedings of the 5th international conference on Artificial intelligence and law**
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49 Interactive modeling: Modeling by example
Thomas Funkhouser, Michael Kazhdan, Philip Shilane, Patrick Min, William Kiefer, Ayellet Tal, Szymon Rusinkiewicz, David Dobkin
August 2004 **ACM Transactions on Graphics (TOG)**, Volume 23 Issue 3
Full text available: pdf(963.37 KB)
mov(24:41 MIN)   Additional Information: full citation, abstract, references

In this paper, we investigate a data-driven synthesis approach to constructing 3D geometric surface models. We provide methods with which a user can search a large database of 3D meshes to find parts of interest, cut the desired parts out of the meshes with intelligent scissoring, and composite them together in different ways to form new objects. The main benefit of this approach is that it is both easy to learn and able to produce highly detailed geometric models -- the conceptual design for ne ...

Keywords: 3D shape matching, databases of geometric models, interactive modeling tools

50 Image retrieval: Content representation and similarity matching for texture-based image retrieval
Noureddine Abbadeni
November 2003 **Proceedings of the 5th ACM SIGMM international workshop on Multimedia information retrieval**
Full text available: pdf(409.30 KB)   Additional Information: full citation, abstract, references, index terms

This paper addresses the fundamental issues of visual content representation and similarity matching in content-based image retrieval and image databases in general. Simply stated, defining an image retrieval system is equivalent to find answers to two fundamental questions: 1. Representation model or which features are used to represent the content of images; 2. Once the set of features representing the content of images is determined, the question of how to combine the individual or partial si ...

Keywords: autoregressive model, content-based image retrieval, perceptual evaluation, perceptual model

51 <u>Database theory, technology and applications (DTTA): Integrating similarity-based queries in image DBMSs</u>

Solomon Atnafu, Richard Chbeir, David Coquil, Lionel Brunie
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available: 📄 <u>pdf(381.23 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Until recently, issues in image retrieval have been handled in DBMSs and in computer vision as separate research works. Nowadays, the trend is towards integrating the two approaches (content- and metadata-based) for multi-criteria image retrieval. However, most existing works and proposals in this domain lack a formal framework to deal with a multi-criteria query. In this paper, we introduce a formal framework to address this subject of image retrieval under an ORDBMS model. We first propose an ...

Keywords: image DBMS, multi-criteria retrieval, multimedia algebra

52 <u>Social browsing: Studying the effect of similarity in online task-focused interactions</u>

Dan Cosley, Pamela Ludford, Loren Terveen
November 2003 **Proceedings of the 2003 international ACM SIGGROUP conference on Supporting group work**

Full text available: 📄 <u>pdf(257.50 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

Although the Internet provides powerful tools for social interactions, many tasks-for example, information-seeking-are undertaken as solitary activities. Information seekers are unaware of the invisible crowd traveling in parallel to their course through the information landscape. Social navigation systems attempt to make the invisible crowd visible, while social recommender systems try to introduce people directly. However, it is not clear whether users desire or will respond to social cues ind ...

Keywords: community, demographics, friendship, matchmaking, recommender systems, similarity, social navigation

53 <u>Poster papers: Similarity measure based on partial information of time series</u>

Xiaoming Jin, Yuchang Lu, Chunyi Shi
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**

Full text available: 📄 <u>pdf(704.61 KB)</u>   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

Similarity measure of time series is an important subroutine in many KDD applications. Previous similarity models mainly focus on the prominent series behaviors by considering the whole information of time series. In this paper, we address the problem: which portion of information is more suitable for similarity measure for the data collected from a certain field. We propose a model for the retrieval and representation of the partial information in time series data, and a methodology for evaluat ...

Keywords: partial information, similarity measure, time series

54 Using extended feature objects for partial similarity retrieval   ☐
Stefan Berchtold, Daniel A. Keim, Hans-Peter Kriegel
November 1997 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 6 Issue 4
Full text available: pdf(679.89 KB)   Additional Information: full citation, abstract, citings, index terms

> In this paper, we introduce the concept of extended feature objects for similarity retrieval. Conventional approaches for similarity search in databases map each object in the database to a point in some high-dimensional feature space and define similarity as some distance measure in this space. For many similarity search problems, this feature-based approach is not sufficient. When retrieving partially similar polygons, for example, the search cannot be restricted to edge sequences, since simil ...

Keywords: CAD databases, Fourier transformation, Indexing and query processing of spatial objects, Partial similarity retrieval

55 Approximate similarity retrieval with M-trees   ☐
Pavel Zezula, Pasquale Savino, Giuseppe Amato, Fausto Rabitti
December 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 4
Full text available: pdf(265.65 KB)   Additional Information: full citation, abstract, citings, index terms

> Motivated by the urgent need to improve the efficiency of similarity queries, approximate similarity retrieval is investigated in the environment of a metric tree index called the M-tree. Three different approximation techniques are proposed, which show how to forsake query precision for improved performance. Measures are defined that can quantify the improvements in performance efficiency and the quality of approximations. The proposed approximation techniques are then tested on various synthet ...

Keywords: Access structures, Approximation algorithms, Distance only data, Performance evaluation, Similarity search

56 Exploiting hierarchical domain structure to compute similarity   ☐
Prasanna Ganesan, Hector Garcia-Molina, Jennifer Widom
January 2003 **ACM Transactions on Information Systems (TOIS)**, Volume 21 Issue 1
Full text available: pdf(285.80 KB)   Additional Information: full citation, abstract, references, citings, index terms

> The notion of similarity between objects finds use in many contexts, for example, in search engines, collaborative filtering, and clustering. Objects being compared often are modeled as sets, with their similarity traditionally determined based on set intersection. Intersection-based measures do not accurately capture similarity in certain domains, such as when the data is sparse or when there are known relationships between items within sets. We propose new measures that exploit a hierarchical ...

Keywords: Similarity measures, collaborative filtering, data mining, hierarchy

57   ☐
Sequence similarity search and access methods: Similarity based retrieval from sequence databases using automata as queries

A. Prasad Sistla, Tao Hu, Vikas Chowdhry
November 2002 **Proceedings of the eleventh international conference on Information and knowledge management**
Full text available: 📄 pdf(198.46 KB)   Additional Information: <u>full citation, abstract, references, index terms</u>

Similarity based retrieval from sequence databases is of importance in many applications such as time-series, video and textual databases. In this paper, automata based formalisms are introduced for specifying queries over such databases. Various measures defining the distance of a database sequence from an automaton are defined. Efficient methods for similarity based retrieval are presented for each of the distance measures. These methods answer nearest neighbor queries (i.e. retrieval of k clo ...

Keywords: automata, seuqence databases, similarity based retrieval

58 <u>Data integration using similarity joins and a word-based information representation language</u>
William W. Cohen
July 2000 **ACM Transactions on Information Systems (TOIS)**, Volume 18 Issue 3

Full text available: 📄 pdf(312.80 KB)   Additional Information: <u>full citation, abstract, references, citings, index terms, review</u>

The integration of distributed, heterogeneous databases, such as those available on the World Wide Web, poses many problems. Herer we consider the problem of integrating data from sources that lack common object identifiers. A solution to this problem is proposed for databases that contain informal, natural-language "names" for objects; most Web-based databases satisfy this requirement, since they usually present their information to the end-user through a veneer of text. We des ...

59 <u>The IGrid index: reversing the dimensionality curse for similarity indexing in high dimensional space</u>
Charu C. Aggarwal, Philip S. Yu
August 2000 **Proceedings of the sixth ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: 📄 pdf(247.92 KB)   Additional Information: <u>full citation, references, citings, index terms</u>

Keywords: dimensionality curse, indexing

60 <u>A robust framework for content-based retrieval by spatial similarity in image databases</u>
Essam A. El-Kwae, Mansur R. Kabuka
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Full text available: 📄 pdf(274.25 KB)   Additional Information: <u>full citation, abstract, references, citings, index terms, review</u>

A framework for retrieving images by spatial similarity (FRISS) in ima ge databases is presented. In this framework, a robust retrieval by spatial similarity (RSS) algorithm is defined as one that incorporates both directional and topological spatial constraints, retrieves similar images, and recognized images even after they undergo translation, scaling, rotation (both perfect and multiple), or any arbitrary combination of transformatioins. The FRISS framework is discussed and used as a ba ...

Keywords: content-based retrieval, image databases, multimedia databases, query formulation, retrieval models, similarity retrieval, spatial similarity

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